



國際華人骨研學會

International Chinese Hard Tissue Society (www.ICHTS.org)

Volume 12, No. 2

September 2004

What's News?

Inside this issue:

Tribute to Harold Frost	2
A Life's Legacy— Dr. Harold Frost	2-3
Leadership Meeting in New Haven, CT	4
Calendar of Events	4
Bone Histomorphometry Workshop	5
CSORS ICHTS Joint Workshop	5
Special Kudos	6
Seattle City Map	6
Oral Presentations by Members at ASBMR	7
Acknowledgements	8
Introduction of Distinguished Member	8

ICHTS pays deepest respect to Dr. Harold Frost for his longtime friendship and his continuous support of ICHTS since its inception in 1994.

From Dr. Gang Li for the Nomination Committee—2004 Election Results:
The 2004 Board of Directors election results are in and the following members are duly elected to be new BOD members to serve starting September 2004:

Kerong Dai (PR China)
Hongwen Deng (USA)
Xu Feng (USA)
Jerry Feng (USA)
Ling Qin (HK)
Yebin Jiang (USA)
Minghao Zheng (Australia)

The president-elected is Dr. Di Chen from University of Rochester.

Many congratulations. I would like to thank fro the ICHTS members for their involvement in voting and particularly Dr. Chao Wan from Queen's University Belfast, UK for looking after the ballot paper and counting the results.

Notice to Members: Any information regarding member's achievements such as career promotion, distinguished invited seminars, award winners, new appointments and any other accomplishments you would like to share with the community should be sent to Newsletter Editor at ichs@yahoo.com.

FROM THE PRESIDENT'S DESK

By Dr. Darren Ji



You are cordially invited to the 10th anniversary celebration of the International

Chinese Hard Tissue Society (ICHTS) to be held at the Grand Hyatt Seattle, Seattle (722 Pine, just north of the Convention Center) on October 3, 2004 from 6:00-8:00 p.m.

The year 2004 is the 10th anniversary of ICHTS. Since its founding in Sun Valley, Idaho, ICHTS has grown from an inspiring infant to an endeared professional society with global members from over 20 countries. In

the upcoming celebration we will take you through the significant events of the society's growth path and the exciting outlook into the future. We will also award the ICHTS Web Jee Young Investigator's Award during the meeting.

The world changes everyday and so do the rules. More than ever, networking and collaboration have become critical components of one's sustained success, in science and in professional career. ICHTS is committed to bringing unique opportunities to our members to get connected and stay connected. The

10th anniversary celebration event is one of such important occasions where colleagues are introduced and form lifetime collaborative relationships and friendships.

Please feel free to contact our local organizer for this event via email at the following: mshih@skeletech.com

I look forward to seeing you all at the meeting, and hope to get to know many of you on a personal level.



See Seattle Map on pg. 6

This newsletter is also available at the Society website at www.ichs.org

TRIBUTE TO HAROLD FROST

by Dr. Douglas Axelrod
honorary member of ICHTS



Harold Frost died recently. Many of you may not know who he was. That was fine with him. But I think you should know anyway.

Hal was an orthopedic surgeon, a very smart orthopedic surgeon, who conceptualized bone as a living tissue, responsive to influences. He thereby conceived of bone as changing shape in response to stresses and strains by two distinct processes: modeling and remodeling. The idea of changing shape was not new. All medical students know Wolff's law. But to attach physical influences to distinct alterations and sites of bone removal and replacement was indeed new, as was the concept of the "mechanostat," a hypothetical mechanism by which bone detected and acted on external influences. He conceived the "bone modeling unit", or BMU, and went on to help us understand why bone does what it does, and how it could be modulated in disease. And he

helped put together the first practical manual on doing bone histomorphometry. He was on his way to explaining the alterations of cartilage modeling in OA when cancer caught up with him.

He was obstreperous, cranky, unreasonable, and possessed. He taught hundreds of us, maybe thousands. He and Web Jee initiated the Sun Valley bone conference, a "brains-on", full contact seminar series that was part learning conference and part "survivor." He was intolerant of technique for technique's sake, and that included molecular biology. But if you look now at who is leading the field in understanding why and how bone does what it does, they are all children of Hal.

Hal would never have survived in a pharma company. He didn't survive academia. But he was driven to understand and teach, even those he thought slow (and that was most of us), and he invented a new field, new ways of understanding, and paved the way for us to come behind, fill in the blanks, and invent therapies for the afflicted.

I miss Hal. I miss who he was and what he contributed. And I miss his kind, those self-identified "dinosaurs" that stay on scientific point, even when the way is unclear, when the methods are unknown, and the field is not with them. They make breakthroughs.

I miss Hal. And if you didn't know him, I'm sorry. But there are other Hals out there, though they be unappreciated or even reviled. But it is their lonely lot to make the breakthroughs that serve us all. And because of that, I adjure you to find them, sit at their feet, put up with their insults and intolerance, and learn.

Millions of patients now and forever owe their health to Hal Frost, that lone, irksome, smart dinosaur. We all owe him and his ilk so much.

Rest in Peace, Sir. And thanks.

This article represents the views of the author only.

A LIFE'S LEGACY - Dr. Harold Frost

by Scott Smith for the *Pueblo Chieftain*

His kidneys have shut down. He can't feel sensation in his bladder and bowels. He has no appetite and suffers from severe back pain and relentless fatigue. He's lost almost 80 pounds in the past two years, as the cancer that began in his prostate gland 16 years ago has inexorably spread throughout his body and into his bones and lungs.

"For one whose head is still working, this ain't no fun," said Dr. Harold Frost, pausing to take a thoughtful draw from his omnipresent pipe. "It ain't no fun."

Frost, an 82-year-old orthopedic surgeon and world-renowned bone researcher, harbors no illusions. He's dying. And he knows it.

"I'm resigned," he said. "I know I'm ap-

proaching the time of death. I'm a little scared about what the hell I'll meet after I die...but I can't do anything about that."

What Frost can control is where he'll watch his final sunsets - and that's why he has chosen the comfort of his South Side home. No hospital bed for Frost, who is intent on exiting with dignity. He'd rather spend his final days or weeks seated in his living-room easy chair, voraciously reading novels and scientific magazines and chain-smoking his beloved pipes.

"Doris (his wife) wants me to stop that (smoking)," Frost said with a sly smile. "She says it'll kill me. Hah!"

Yeah, Frost's sense of humor remains just fine, thanks - and so are the rest of his brain functions. After all, this is a man who, until his recent kidney failure, was still practicing medicine 3 days a week.

"When he gave up his practice," said

longtime friend Dr. Webster Jee, a professor of anatomy at the University of Utah, "I knew the end was pretty close."

Jee also knew what needed to be done. He quickly began making contact with Frost's far-flung peers and disciples - scientists and doctors and researchers and engineers, all bonded by the Pueblo surgeon's years of groundbreaking findings in the fields of bone structure and biodynamics. For the past four decades, the bone specialists have been gathering at sites around the world for annual hard-tissue workshops and conferences, all designed to further explore Frost's original ideas and the scientific dialogue they've spawned.

"He's like our father," said Jee, who has known Frost for almost 50 years.

The bone men, alerted by Jee and e-mails sent by Doris Frost that mentioned her husband's rapidly failing health, quickly decided to alter their scheduled meeting plans. They moved the workshop up to this weekend (from October),

A LIFE'S LEGACY - Dr. Harold Frost *Cont'd. from pg. 2*



switched the location to Pueblo and have proclaimed the event a tribute to Dr. Harold Frost. Make that Dr. Harold Frost, FEOD - a self-proclaimed title that stands for

Feisty, Eccentric, Old Dinosaur.

More than two dozen of Frost's friends and fellow researchers - some from as far away as Japan, Germany and England - are expected to attend the celebratory dinners and workshop Friday and Saturday at the Holiday Inn. They'll toast their comrade, give him a few heartfelt hugs and wonder what the research community will be like without the gruff, outspoken workaholic who has made a lifelong commitment to figuring out how bones work.

"It's not easy for people to make this on such short notice, but it's something we wanted to do," Jee said.

Said Frost: "I'm planning to go, if I don't die first, OK?"

Then, with voice cracking and tears welling, he added, "It's nice to be taken into account. It's nice to be respected."

Respected? That would be a dramatic understatement. Here's a sampling of some written tributes from his peers about their founding father: They characterize Frost as "the one and only genuine theoretician in the field of hard-tissue biology and medicine," "a pioneer in the field of histomorphometry" and "an iconoclastic tinkerer who worked alone in his basement laboratory and used a technique of his own invention to make unprecedented observations of how human bones maintain their structure."

Said local physician Carl Bartecchi, "He's world-class."

He's also been happily at home in Pueblo for the past three decades. Frost moved here in 1973, after a 17-year tenure at Henry Ford Hospital in Detroit, where he chaired the orthopedic surgery department. Before that, the Boston native and graduate of Northwestern University School of Medicine worked as an assistant professor at Yale University School of Medicine and began dabbling in bone research.

When Frost came to Pueblo (to the Southern Colorado Clinic) - drawn by the mountains, climate and laid-back lifestyle - he brought with him his international reputation as a dogged researcher, talented orthopedist and prolific author.

He has written 442 published articles and 16 books/monographs; performed thousands of operations (his total was 10,000 in 1973, when he stopped counting); lectured in Brazil, Italy, Japan, Mexico, Austria, Spain, Switzerland and many other countries; and helped to revolutionize the fields of skeletal physiology, musculoskeletal biomechanics and bone histology and pathology.

His work ethic has been described as prodigious by his peers. Who else, they wonder, would list the following as a hobby? - "Correspondence and jawboning with clinical and research colleagues regarding skeletal science, medicine and surgery." Only Dr. Frost, of course.

Over the years, many of Frost's theories have been accepted by the scientific and medical communities, but along the way, he spent plenty of time and energy challenging - and failing to alter - accepted wisdom. One of his favorite quotations, by Daniel Boorstin, reflects his early frustrations: "The great obstacle to progress is not ignorance, but the illusion of knowledge."

Of course, Frost's tenacious approach and sometimes-combative personality didn't help sway the established experts.

"Besides, how the hell can you expect an orthopedic surgeon to come up with anything useful and scientific?" Frost said with a chuckle. "Everybody knows they're interested in the stock market and golf and Mercedes. It took a while for credibility to grow, but it's still building."

These days, Frost finds himself reflecting on a personal past he views as bittersweet. He's proud of his three children and their chosen careers - Patricia (surgeon), Bob (policeman) and Eric (commercial pilot) - and of his 16-year marriage to Doris, a nurse. He knows he's battled the cancer the best he could, with surgery, X-ray treatments and courage. And, of course, he's pleased that much of his research has

been validated, accepted as fact and used to improve bone medicine and, more importantly, patients' lives.

But, with the clarity of hindsight, Frost claims he's lived an imperfect life - despite doing his best to follow some simple Confucian wisdom: "What you would hate if done to you, do not to others."

Said Frost, "I've made a lot of mistakes. When I was 40, 50, 60 years younger, I really didn't know a damn thing, and I thought I knew everything, OK? I'm glad for one thing: That after I conk, I won't be the one who has to judge me."

Spoken like a true, hard-working perfectionist and FEOD.

After taking another puff from his pipe, Frost added, "Actually, I've been very fortunate. I had a lot of breaks, and my dad (also a surgeon) was very understanding and supportive. And, unlike most of my colleagues, I was never interested in getting rich.

"I guess the good part of it all was the journey, not the destination."

Dr. Harold Frost's major contributions to the field of orthopedic science:

The development of techniques to make quantitative measurements on nondecalfied bone sections and the invention of bone histomorphometry.

Dr. Frost was the first to use the calcium-binding and fluorescent properties of the antibiotic tetracycline in bone biology, ultimately providing a way to measure the rate of bone formation.

The use of the 11th-rib biopsy for diagnosis of metabolic bone disease.

The discovery of the basic multicellular unit as the key effector of bone metabolism.

The experimental demonstration that estrogens reduce bone formation.

The histological demonstration of microcracks in human bone biopsies.

The basic theories for bone growth plate adaptation to mechanical loading.

The "mechanostat theory" of bone adaptation to mechanical effects. Muscle-bone relationship; the concept that bone mass is directly tied to lean muscle mass and muscle force.

- compiled from writings by Charles Turner, David Burr and Web Jee

Leadership Meeting in New Haven, CT *By Yixian Qin*



The ICHTS 2004 Leadership Meeting was held in New Haven, CT, June

12-13. While we can view our accomplishments over the past 10 years with great pride, many new faces were shown in this year's meeting. The meeting had a very pleasant opening started by Darren Ji's brief opening remarks and attendees' introduction. The attendees included Chunyuan Guo, Mei-Shu Shih, Peng Liu, Yong-Jun Wang, Dan Wu, Hong-Wen Deng, David Ke, Hong-jiao Ouyang, Di Chen, Yixian Qin, Qian Chen, Darren Ji, Lianping Xing, and Yu Ru.

For the past 10 years, many senior leaders have made significant contributions to the Society. The hallmark of our Society is its vision looking forward. In fact, the next 10 years will likely bring remarkable new challenge as well as new opportunities. Current status of the Society was reviewed in the meeting. Membership in the Society is at its highest ever with more than 30% growing rate between 9/2003 and 6/2004 covering in US, PRC and many other Asia and European countries. Many PIs gain research grants, patents, and publications in the leading journals. There is developing relationship with Chinese related science societies. Members actively participate international and national conferences, organize workshops, and generate networks. We have setup centers in Beijing and Tianjing. A Chinese version of the Society website has been setup at <http://www.ichts.org.cn>. ICHTS is growing and is becoming a professional community where we call it a HOME where members help each other to excel in science, career and personal

growth; where a BRIDGE is built for scientific and cultural exchanges between Chinese and international communities.

Interestingly, all of these accomplishments and activities raise the question, how does the Society deal with its future challenge and success? Along with many positive achievements, our Society is still in a development stage in many areas, e.g., fundraising, communications (email list, websites, newsletter and etc.), membership, China exchanges (meetings, workshops, visiting, research centers, and educational programs), impact of annual Society meeting, and long term plans. Does the ICHTS have initial national and international stature to effectively influence and serve an advocacy role for Chinese scholars and for our discipline?

These issues were extensively discussed in the meeting. The main and general agenda for the meeting included the review the society, celebration of 10 years establishment of the ICHTS, election issues for the board and the president-elect, travel award, research centers, educational program, meeting plans in China, fundraising, and long-term and short-term plans. Several motions were passed during the meeting. Several main issues and outcomes are summarized:

1. Annual meeting: This annual meeting will achieve these goals: a) Providing forum for the Chinese scholars in the hard tissue research area, setting up networking and promoting young scientists in the field; b) Business update, election results, 10 years celebration; c) Awards announcement; d) Mentoring workshop, role model, how to become

success, inviting ASBMR president-elected. Venue (Seattle, WA) and the date (October 3, 2004) were determined. A number of issues for the Annual Meeting were resolved, including history of the society (Shih), poster and pictures (Ji), T-shirt or gift bag, brochure (Ji), and service award(s).

2. Travel Award – Need a new name. Suggested name, ICHTS Webster Jee Young Investigator Award, was passed. Review and select criteria were determined: graduate student, post-doc, 5 years within completion of Ph.D., M.D., or equivalent degrees. Established awards were discussed. Gang Li will chair a committee and continue working on it.
3. ICOBR 2005, China. Invited speakers: 25 (total), 13 (by ICHTS). Detailed program is under development by the committee.
4. Education committee update: The plan proposed by Yu Ru was discussed extensively. It is suggested that these materials can be included in the Newsletters.
5. Fundraising: It is recognized that this may be a most difficult area to develop for the Society. We will make every effort to accomplish our goal. Ji and Jee will co-chair the committee.
6. Future plan: Society Strategy Goal, 5 years and 10 years were discussed.

Chinese embassy representatives, 续超前- Scientific Division, Chinese Consulate General, and 韦刚- Foreign Relation Division, Chinese Consulate General, also joined social part of the meeting.



Calendar of Events

ICHTS and CSOS Joint Workshop in Beijing—September, 24-29

- Contact: Gang Li, Minghao Zheng, Ling Qing

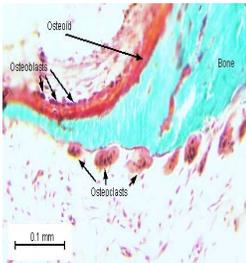
Annual Membership Meeting—October 3, 2004, Seattle, WA

- Contact: Dr. Mei-Shu Shih

The 2nd International Conference on Osteoporosis & Bone Research—October 20-24, 2005, China

- Contact: Di Chen, Web Jee,

Bone Histomorphometry Workshop *by Yebin Jiang*



A one-day workshop on bone histomorphometry was held in San-Di-Yuan Hotel, Beijing, China, on June 30, 2004. It was co-sponsored by OsteoMetrics, Inc., SIM International Co., Beijing, China, and International Chinese Hard Tissue Society (ICHTS).

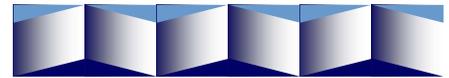
Background: Bone histomorphometry is a very important and useful tool for hard tissue research. This technique is also widely used for bone research in China. There is a great need for its standardized measurement and knowledge on data interpretation and latest advancement in its application. OsteoMetrics, Inc., a relatively small com-

pany which provides hardware and software for bone histomorphometry and has been supporting ICHTS continuously and generously for long time.

A brief opening introduction was given by Mr. Lingxi Li, the General Manager of SIM Co. and Mr. Charlie Bleau, OsteoMetrics CEO. ICHTS faculties, Drs. Di Chen, Yebin Jiang, and Yixian Qin gave 3 presentations related to bone histomorphometry. Dr. Jiang presented 2D and 3D bone histomorphometry. Dr. Qin spoke on the effects of mechanical stimulation on hard and soft tissue adaptation - a histomorphometric study. Dr. Chen lectured on bone histomorphometric assessment of transgenic and knockout animals. Hands-on training course for utilization of OsteoMeasure system by Mr. Bleau was held in the afternoon. ICHTS faculties provided Chinese translation.

The lectures and hands-on training course were very well received. There were lively discussions with many questions from the audience. About 120 participants came from all over the country, including senior experts such as Profs. Shifu Guo, Xianzheng Luo, Xiaoguang Cheng, Weibo Xiao, Yanling Zhao, etc., and many young physicians and scientists. OsteoMetrics, Inc. and SIM International Co. generously provided board and lodging for all the speakers and attendees.

Dr. Chen introduced ICHTS to the audience, and ICHTS faculties showed slides of ICHTS in their lectures.



CSORS - ICHTS Joint Workshop *by Dr. Gang Li*



Announcing the Chinese Speaking Orthopedic Society Joint Workshop to be held Sept. 24-29 in Beijing. The

following is a list of some of the topics to be included:

- Molecular Biology basis of cartilage and repair
- Biological mechanisms of bone remodeling
- Osteoclast biology and its clinical implications
- Biology of fracture healing and distraction osteogenesis
- Biological and biomechanical characteristics of two different in-
- In vivo expansion of pluripotent stem cells in adipose tissue in type-II collagen promoter-driven GFP Mice II
- State of the art biotechnologies for bone and bone mineral research
- Raloxifene, estrogen and alendronate affect the process of fracture repair differently in ovariectomized rats
- Low intensity pulsed ultrasound accelerates bone-tendon junction repair
- P38 MAPK/HMAT1 signaling regulates chondrocyte phenotype
- IL-1 Ra gene transfer attenuates the inflammation of human periprosthetic tissues in SCID mice
- Basic principles of biomaterials and biomechanics
- Round table discussion on research grant and protocol preparation plus career advancement coaching
- Applications of research funding in clinical orthopedics and implant development and its value.

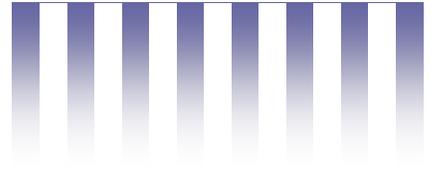


Special Kudos



Dr. Chun-Yuan Guo, Treasurer and executive committee member was promoted to Senior Scientist, Procter & Gamble Pharmaceuticals, R&D, sustained and significant

contributions to the Actonel program through his dual role as Medical Monitor and member of the Clinical Measurements group. As Medical Monitor, Chun-Yuan drafted the protocol outline as well as clinical plan for the Phase III Actonel OI Pediatric study.



**S
E
A
T
T
L
E
,
W
A**



Oral Presentations by ICHTS Members at ASBMR Annual Meeting *Dr. D. Chen*

To facilitate the communication and collaboration among ICHTS members, we have collected information from our members and created a list of presentations which will be given by ICHTS members at 26th ASBMR annual meeting (please see below). Please mark your calendar and try to attend these presentations. This is a very good opportunity for you to support our members and to find out if there is collaboration possibility for your projects.

Presenting Author	Senior Authors	Abstract # & Title	Time	Session & Room #
Ming Zhao	Gregory Mundy	#1176: The zinc finger transcription factor Gli2 enhances BMP-2 gene transcription, osteoblast	10/5, Tuesday, 9:45 am	Concurrent Oral 25, Rm 608-609
Hua Zhu (David) Ke	Hua Zhu (David) Ke	#1216: A novel, nonsteroidal androgen receptor modulator (SARM) increases periosteal bone formation and inhibits trabecular bone turnover in aged intact and orchidectomized male rats.	10/5, Tues., 9:45 am	Concurrent Oral 30, Rm 6ABC
Hua Zhu (David) Ke	Hua Zhu (David) Ke	#1008: Deletion of beta-2 adrenergic receptor prevents bone loss induced by isoproterenol in	10/2, Sat., 10:15 am	Plenary orals II, Rm 6ABC
Zhao Chen		#1154: Postmenopausal Hormone Therapy and Body Composition --- Results from the Women's Health Initiative E+P trial	10/4 Monday 5:15 pm	Concurrent Oral 21, RM 608-609
Fei Liu	Barbara. E. Kream	#1061: CREM/ICER deficiency blunts the anabolic effect of intermittent PTH on bone mass	10/3, Sun., 2:30 pm	Concurrent Oral 7, Rm
Yi-Xian Qin	Yi-Xian Qin	Fluid Flow in Bone Working Group: The Role of In Vivo Dynamic Fluid Flow Stimulation in Bone Adaptation	10/1, Fri. 7:50 pm	
Yi-Xian Qin	Yi-Xian Qin	Bone remodeling and stress fracture Working Group: The Influence of Fluid Flow on Bone Remodeling	10/2, Sat. 7:55 pm	
Tuan Phan	Jiake Xu	#1376: Identification and Functional Characterization of a Novel Osteoclast Derived Osteoblast-	10/4, Mon. 5:30pm	Concurrent Oral 19, Rm 6E
Weibin Shi	Xu Cao	New Smad Anchor for Receptor Activation (SARA) for BMP Signaling	10/2 3:30 pm	Concurrent Rm 611-614
Ji Li	Ji Li	#1017. Transgenic Mice Over-Expressing Dkk-1	10/2, Sat	Concurrent Oral 1,
Tony Phan	Jiake Xu	#1376: Identification and characterization of a novel osteoclast derived osteoblastic factor (ODOF)	10/4, Mon. 5:30 pm	Concurrent Oral 19, Rm 6E
Hector Rios	Jian Feng	(1004) Dentin Matrix Protein-1 (DMP-1) Plays a Key Role in Osteocyte Function through Regulation of Mineralization and Response to Mechanical Strain	10/2 Saturday 10:45 am	Plenary Oral Rm 6E
Ling Ye	Jian Feng	(1177) Ectopic Bone Formation in Tooth Pulp, Absence of Cementum, Hyperplastic Periodontal Ligament and Reduced or no Dentin in Mice lacking Bone Morphogenetic Protein Receptor type 1A (BMPR1A)	10/5 Tuesday 10:00 am	Concurrent Oral #25 Rm 608
Liping Xiao	M. Hurley	(1042) The Exported 18kDa Isoform of FGF2 is a Critical Determinant of Bone Mass in Mice	10/2, Sat. 3:45-4:00	Concurrent Rms 611-614
Tian-fang Li	R. O'Keefe	(1180) Smad3 Deficient Chondrocytes Have Accelerated Differentiation and Enhanced BMP	10/5 9:30-11:30	Concurrent Rms 608-609
Q. Wu	R. Rosier	(1040) Cartilage-Specific Over-Expression of Smurf2 Induces an Osteoarthritic Phenotype in	10/2 2:30-4:00 pm	Concurrent Rooms 611-614



國際華人骨研學會

International Chinese Hard Tissue Society (www.ICHTS.org)

Gift Voucher

Please fill in and exchange for a 10th year celebration gift pack at the Annual Meeting 2004

NAME: _____ DEGREE: _____

TITLE: _____ PHONE NUMBER: _____

AFFILIATION: _____

CONTACT ADDRESS: _____

E-MAIL: _____



DEAR MEMBERS:

Since the Society's inception, the membership has increased from 33 in 1994 to more than 700 in 2004. To facilitate effective and efficient services to all members, the Society will appreciate your participation and contribution to make the difference and to promote the growth.

Your contribution is tax deductible. We will issue an acknowledgement for your tax filing purpose. You may indicate the amount at below and drop the slip with the contribution to the collection box when you exit the 2004 annual meeting or you may send a check to:

ICHTS Treasurer c/o Dr. Chunyuan Guo
 8169 Simpson Creek Way
 Mason, OH 45040
 USA

___ \$ 20.00	___ \$ 35.00	___ \$ 50.00
___ \$ 75.00	___ \$ 100.00	___ \$

**INTERNATIONAL CHINESE HARD
TISSUE SOCIETY**

President: Dr. Darren Ji
Vice President: Di Chen
Newsletter Editor: Patti McIntyre
Website: www.ICHTS.org
E-mail: ICHTS@yahoo.com



We're on the Web at
www.ICHTS.org

Acknowledgements

We wish to thank the following corporations and individuals for their generous financial support of the ICHTS 2004 Annual Meeting and also Web Jee ICHTS Young Investigator's Awards:

Companies:

Pfizer PVP Foundation
Pfizer, Inc.
OsteoMetrics
P&G Pharmaceuticals
Stratec
Amgen
Orthologic
Norland
Scanco
SkeleTech

Individuals:

Web Jee
David Ke

Introduction of Distinguished Member of ICHTS

Xu Cao, Ph.D.

Has been appointed full professor at the University of Alabama in Birmingham. Dr. Cao is a member of ICHTS Executive Committee in charge of Public Relations. He has also been invited to serve as moderator at ASBMR's 26th Annual Meeting and co-chair a session on "BMPs and Other Growth Factors."



Interview with Dr. Cao

Dr. Cao was born and raised in Xinjiang, China where he lived with his parents and 4 other siblings. He came to the U.S. in 1986 where he currently lives with his wife and two children — Janet who is 17 and David who is 15.

Dr. Cao attended Xinjiang University for 4 years and the University of South Carolina, where he received his Ph.D., for 3 years.

It was during his college years in China that he decided to pursue a research career. He says that he began to understand bone biology when he was doing his post-doc work with Dr. Steven Teitelbaum.

When asked what he felt were his greatest accomplishments he said, *"We have trained many Chinese post doc and Ph.D. students in my lab. Three of them acquired assistant professor positions in the USA this year. I anticipate that more people trained in my lab will move up to faculty positions in the USA."* He went on to say, *"We discovered an important BMP signaling pathway that stimulates bone formation. We worked with P&G Pharmaceuticals for developing an osteoporosis drug and identified potential compounds that mimic BMP signaling and stimulate bone formation."*

Xu Cao contributes his success in the medical field to *"a long-term goal and a commitment to never give up."* He feels that the person

who has made the greatest influence on his career to date is Dr. Steven Teitelbaum, his post doc mentor.

Dr. Cao's advice for young Chinese scientists who wish to achieve success in the medical research field would be *"to have a long-term goal and be persistent. Try to improve yourself in every aspect, not just science, particularly focusing on communication skills."*



Each newsletter will feature one or two distinguished members, giving a detailed background of their accomplishments. Please send nominations to Newsletter Editor at ichs@yahoo.com